

# CREST COMPOSITES & PLASTICS PVT. LTD.

## C'POL-141 N

Product Data Sheet dated 25/04/2012

revision:00

### ❖ Product Description:

**C'POL-141 N** is low cost unsaturated polyester resin based on terephthalic, especially developed for SMC/DMC processes. The resin can take high filler loading and is compatible with low profile additives. The moulding with this resin exhibits good electrical and mechanical properties.

### ❖ Physical Properties of Liquid Resins:

- Colour & Appearance : Hazy Dark Yellow Liquid
- Viscosity @ 25°C. (cps.) : 800 - 1000
- Acid Value (mgs. KOH / g.) : 20- 28
- Specific Gravity @ 25°C. : 1.14 ± 0.02
- Monomer content (wt.%) : 35 ± 3
- Gel time @ 140°C. (Sec.) : 50 - 70  
(with 1.3% TBPB )

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**Note:** Properties are tested in accordance with methods described in IS 6746 – 1994.

# C'POL-141 N

## ❖ Mechanical Properties Of Cast Resin

(Cured for 24 hrs. at room temperature followed by for 4 hrs. at 100 °C)

|  |         |
|--|---------|
| □ Tensile Strength (Kgs./cm. <sup>2</sup> )  | : 600   |
| □ Elongation at break ( % )                  | : 2 - 3 |
| □ Flexural Strength (Kgs./cm. <sup>2</sup> ) | : 850   |
| □ Specific Gravity                           | : 1.22  |
| □ Heat Distortion Temperature (Deg.C)        | : 100   |
| □ Barcol hardness                            | : 35    |
| □ Volume Shrinkage ( % )                     | : 9     |

## ❖ Caution

**C'POL-141N** is of limited shelf life. Storage at 15-20 Deg.C and low humidity in securely closed containers is recommended. Exposure of container to direct sunlight should be avoided at all costs. The material should be consumed as soon as it is received especially when proper storage facility does not exist. Material is guaranteed for a shelf life of 3 months from manufacturing date when stored at suggested conditions. Storage at higher temperatures will adversely affect shelf life.

## Our Other Polyester resins:

**C'POL - 281/S** - PTA based SMC/DMC resin

**C'POL - 381/S** - Isophthalic based High electrical grade SMC/DMC resin.

**C'POL - 781/S** - Vinyl ester based SMC resin

## Note:

All the above information is based on the results of tests carried out at our laboratories to the best of our ability. The figures are intended to give a general indication of the characteristics of the product. No liability must be assumed or implied as a result of the data given.

For trade enquiries please call on:

**Crest Composites & Plastics Pvt. Ltd.**

Survey No. 609, Village: Shetra, Tal. & Dist.: Kheda - 387560

**Tel.No.** (02694) 281351/ 281352 / 281694 Fax: (02694) 281352

**E-mail:** [cpol@crestcomposites.com](mailto:cpol@crestcomposites.com)